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REGENERATION OF PALLADIUM CARRYING CATALYST
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Abstract:

PURPOSE: To regenerate a palladium carrying catalyst used in reaction of dimerization of an aromatic halogen compound through dehalogenation in the presence of water, reducing agent and halogen acceptor, by immersing the catalyst in an organic solvent having compatibility with water and then in a halogenated hydroacid.

CONSTITUTION: An aromatic halogen compound is dimerized through dehalogenation to give a biaryl compound and a Pd carrying catalyst (preferably Pd-active carbon catalyst) used in the reaction is regenerated. In the regeneration, first, the catalyst is blended with an organic solvent (e.g., methanol, DMF or THF) having compatibility with water in a stirring container, treated at 10-40°C for 5 minutes 3 hours, then immersed in a halogenated hydroacid (preferably 0.01-1wt.% hydrochloric acid) and treated under the same condition as the organic solvent. The catalyst after the treatment is neutralized in an alkali system, filtered and recovered.

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